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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 09 CA/Caplus records now contain indexing from 1907 to the
present
NEWS 4 AUG 05 New pricing for EUROPATFULL and PCTFULL effective
August 1, 2003
NEWS 5 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 6 AUG 18 Data available for download as a PDF in RDISCLOSURE
NEWS 7 AUG 18 Simultaneous left and right truncation added to PASCAL
NEWS 8 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right
Truncation
NEWS 9 AUG 18 Simultaneous left and right truncation added to ANABSTR
NEWS 10 SEP 22 DIPPR file reloaded
NEWS 11 SEP 25 INPADOC: Legal Status data to be reloaded
NEWS 12 SEP 29 DISSABS now available on STN
NEWS 13 OCT 10 PCTFULL: Two new display fields added
NEWS 14 OCT 21 BIOSIS file reloaded and enhanced
NEWS 15 OCT 28 BIOSIS file segment of TOXCENTER reloaded and enhanced

NEWS EXPRESS NOVEMBER 14 CURRENT WINDOWS VERSION IS V6.01c, CURRENT
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 17:05:30 ON 14 NOV 2003

=> fil .eliz

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST | 0.21 | 0.21 |

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FILE 'WPIDS' ENTERED AT 17:05:50 ON 14 NOV 2003
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```
=> s (4 (3w)bromo(3w)hydroxy (w) butan?) (10a)(4(3w)bromo(3w) oxobutan?)
L1      0 (4 (3W) BROMO(3W) HYDROXY (W) BUTAN?) (10A)(4(3W) BROMO(3W)
        OXOBUTAN?)
```

=>

```
=> s 4 bromo hydroxy(w) butan?) (10a)(4)bromo(w) oxobutan?)
UNMATCHED RIGHT PARENTHESIS 'BUTAN?) '
The number of right parentheses in a query must be equal to the
number of left parentheses.
```

```
=> s (4 bromo hydroxy(w) butan?) (10a)(4)bromo(w) oxobutan?)
MISSING OPERATOR 4)BROMO
The search profile that was entered contains terms or
nested terms that are not separated by a logical operator.
```

```
=> s (bromo hydroxy(w) butan?) (10a)(bromo(w) oxobutan?)
L2      0 (BROMO HYDROXY(W) BUTAN?) (10A)(BROMO(W) OXOBUTAN?)
```

```
=> s 4-bromo-3-oxobutanoate
L3      35 4-BROMO-3-OXOBUTANOATE
```

```
=> s 4-bromo-3-oxobutano?
L4      45 4-BROMO-3-OXOBUTANO?
```

```
=> s l3 not l4
L5      0 L3 NOT L4
```

```
=> s 4-bromo-3-hydroxy butano?
L6      2 4-BROMO-3-HYDROXY BUTANO?
```

```
=> s 4-bromo-3-hydroxybutano?
L7      16 4-BROMO-3-HYDROXYBUTANO?
```

```
=> s l6 not l7
      9 FILES SEARCHED...
L8      2 L6 NOT L7
```

=> s 14 and 16
L9 0 L4 AND L6

=> s 14 and 17
L10 9 L4 AND L7

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11 3 DUP REM L10 (6 DUPLICATES REMOVED)

=> d 1-3

L11 ANSWER 1 OF 3 HCAPLUS COPYRIGHT 2003 ACS on STN
AN 2003:108053 HCAPLUS
DN 138:121676
TI Manufacture of (R)-4-cyano-3-hydroxybutanoic acid esters with Penicillium
IN Wakita, Ryuhei; Asako, Hiroyuki; Matsumura, Kenji; Shimizu, Masatoshi
PA Sumitomo Chemical Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

| | PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------|----------------|------|----------|-----------------|----------|
| PI | JP 2003038193 | A2 | 20030212 | JP 2001-229309 | 20010730 |
| PRAI | JP 2001-229309 | | 20010730 | | |

L11 ANSWER 2 OF 3 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN DUPLICATE 1
AN 2003:78762 SCISEARCH
GA The Genuine Article (R) Number: 633NU
TI The enantioselectivity of reduction of ethyl 4-halo-3-oxobutanoate
catalyzed by Geotrichum candidum depends on the cofactor
AU Sundby E; De Zotti M; Anthonsen T (Reprint)
CS Norwegian Univ Sci & Technol, Dept Chem, N-7491 Trondheim, Norway
(Reprint)
CYA Norway
SO JOURNAL OF MOLECULAR CATALYSIS B-ENZYMATIC, (2 JAN 2003) Vol. 21, No. 1-2,
pp. 63-66.
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM,
NETHERLANDS.
ISSN: 1381-1177.
DT Article; Journal
LA English
REC Reference Count: 18
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L11 ANSWER 3 OF 3 BIOTECHDS COPYRIGHT 2003 THOMSON DERWENT/ISI on STN
AN 2002-19087 BIOTECHDS
TI New protein preferentially producing (S)-4-bromo-
3-hydroxybutanoate by asymmetrically reducing 4
-bromo-3-oxobutanoate, useful in
pharmaceuticals and agrochemicals;
vector-mediated glucose-dehydrogenase gene transfer and expression in
Escherichia coli for stereospecific compound production
AU ASAKO H; MATSUMURA K; SHIMIZU M; ITO N; WAKITA R
PA SUMITOMO CHEM CO LTD
PI EP 1213354 12 Jun 2002
AI EP 2000-310251 7 Dec 2000
PRAI JP 2001-175175 11 Jun 2001
DT Patent
LA English
OS WPI: 2002-550350 [59]

=> d 2 ab

L11 ANSWER 2 OF 3 SCISEARCH COPYRIGHT 2003 THOMSON ISI on STN DUPLICATE 1
AB Enantioselective reductions of ethyl 3-oxobutanoates with fermenting
cells or acetone treated cells of Geotrichum candidum gave 3-hydroxyesters
with different ee and different predominant configurations depending on
reaction conditions. Ethyl **4-bromo-3-oxobutanoate** was reduced with APG4 and NADH to give predominantly
ethyl (R)-**4-bromo-3 hydroxybutanoate**
while the (S)-configuration was predominant when NADPH was the cofactor.
Moreover, when the catalyst was heated before the reaction, the ee was
increased indicating that the enzyme giving the (S)-alcohol is more
thermolabile than the other. (C) 2002 Elsevier Science B.V. All rights
reserved.

=> dis his

(FILE 'HOME' ENTERED AT 17:05:30 ON 14 NOV 2003)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS,
NTIS, ESBIODBASE, BIOTECHNO, WPIDS' ENTERED AT 17:05:50 ON 14 NOV 2003

L1 0 S (4 (3W)BROMO(3W)HYDROXY (W) BUTAN?) (10A) (4(3W)BROMO(3W) OXOB
L2 0 S (BROMO HYDROXY(W) BUTAN?) (10A) (BROMO(W) OXOBUTAN?)
L3 35 S 4-BROMO-3-OXOBUTANOATE
L4 45 S 4-BROMO-3-OXOBUTANO?
L5 0 S L3 NOT L4
L6 2 S 4-BROMO-3-HYDROXY BUTANO?
L7 16 S 4-BROMO-3-HYDROXYBUTANO?
L8 2 S L6 NOT L7
L9 0 S L4 AND L6
L10 9 S L4 AND L7
L11 3 DUP REM L10 (6 DUPLICATES REMOVED)

=> log h

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

34.69

34.90

SESSION WILL BE HELD FOR 60 MINUTES

STN INTERNATIONAL SESSION SUSPENDED AT 17:16:24 ON 14 NOV 2003

WEST Search History

DATE: Friday, November 14, 2003

Set Name Query

side by side

Hit Count Set Name

result set

DB=USPT,PGPB,JPAB,EPAB,DWPI; PLUR=YES; OP=ADJ

| | | | |
|----|---|---|----|
| L5 | L4 not l2 | 3 | L5 |
| L4 | (4 bromo 3 hydroxybutan\$) with (4 bromo 3 oxobutan\$) | 3 | L4 |
| L3 | (4 bromo 3 hydroxy butan\$) with (4 bromo 3 oxo butan\$) | 0 | L3 |
| L2 | (4 bromo 3 hydroxy butan\$) with (4 bromo 3 hydroxy butan\$) | 3 | L2 |
| L1 | (4adj3 bromo 3 adj3 hydroxy butan\$) with (4 adj3 bromo 3 adj3 hydroxy butan\$) | 0 | L1 |

END OF SEARCH HISTORY

WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.****1. Document ID: US 20030134402 A1**

L5: Entry 1 of 3

File: PGPB

Jul 17, 2003

PGPUB-DOCUMENT-NUMBER: 20030134402
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030134402 A1

TITLE: Process for producing optically active 4-halo-3-hydroxybutanoate

PUBLICATION-DATE: July 17, 2003

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|--------------------|------------|-------|---------|---------|
| Asako, Hiroyuki | Osaka | | JP | |
| Matsumura, Kenji | Osaka | | JP | |
| Shimizu, Masatoshi | Osaka | | JP | |
| Ito, Nobuya | Toyama-shi | | JP | |
| Wakita, Ryuhei | Osaka | | JP | |

US-CL-CURRENT: [435/146](#); [435/189](#), [435/197](#), [536/23.1](#)

| Full | Title | Claims | Foot | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Pub | Draw | Desc | Image |
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|

2. Document ID: US 4788300 A

L5: Entry 2 of 3

File: USPT

Nov 29, 1988

US-PAT-NO: 4788300
DOCUMENT-IDENTIFIER: US 4788300 A

TITLE: Substituted butanamido acetate compounds for the preparation of pyrrolidone derivatives

| Full | Title | Claims | Foot | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Pub | Draw | Desc | Image |
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|

3. Document ID: US 4629797 A

L5: Entry 3 of 3

File: USPT

Dec 16, 1986

US-PAT-NO: 4629797
DOCUMENT-IDENTIFIER: US 4629797 A

TITLE: Process for the preparation of pyrrolidone derivatives

| Full | Title | Claims | Foot | Review | Classification | Date | Reference | Sequences | Attachments | Claims | Pub | Draw | Desc | Image |
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|
|------|-------|--------|------|--------|----------------|------|-----------|-----------|-------------|--------|-----|------|------|-------|

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L4 not l2

3

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WEST[Generate Collection](#)[Print](#)**Search Results - Record(s) 1 through 3 of 3 returned.****1. Document ID: US 20020042055 A1**

L2: Entry 1 of 3

File: PGPB

Apr 11, 2002

PGPUB-DOCUMENT-NUMBER: 20020042055
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20020042055 A1

TITLE: Alteration of hydrolase genes and screening of the resulting libraries for the ability to catalyze specific reactions

PUBLICATION-DATE: April 11, 2002

INVENTOR-INFORMATION:

| NAME | CITY | STATE | COUNTRY | RULE-47 |
|----------------------|-------------|-------|---------|---------|
| Affholter, Joseph A. | Zephyr Cove | NV | US | |

US-CL-CURRENT: 435/6; 435/7.1, 435/91.2

| Full | Title | Abstract | Front | Reclaim | Classification | Date | Reference | Sequences | Attachments |
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|

| Full | Order Desc | Images |
|------|------------|--------|
|------|------------|--------|

2. Document ID: JP 2003096068 A

L2: Entry 2 of 3

File: DWPI

Apr 3, 2003

DERWENT-ACC-NO: 2003-601550
DERWENT-WEEK: 200357
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TITLE: Manufacture of 3-hydroxy-gamma-butyrolactone useful as intermediates for e.g. pharmaceuticals, involves reacting 4-bromo-3-hydroxy butanoic acid ester and water, and distilling water or adjusting pH of reaction solution

| Full | Title | Abstract | Front | Reclaim | Classification | Date | Reference | Sequences | Attachments |
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|

| Full | Order Desc | Clip Image | Images |
|------|------------|------------|--------|
|------|------------|------------|--------|

3. Document ID: JP 2002241374 A

L2: Entry 3 of 3

File: DWPI

Aug 28, 2002

DERWENT-ACC-NO: 2003-178361
DERWENT-WEEK: 200318
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TITLE: Manufacture of 3-hydroxy-(gamma)-butyrolactone used as intermediate of pharmaceuticals, involves heating mixture of 4-bromo-3-hydroxy butanoic acid ester and water at preset temperature

| Full | Title | Abstract | Front | Reclaim | Classification | Date | Reference | Sequences | Attachments |
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|
|------|-------|----------|-------|---------|----------------|------|-----------|-----------|-------------|

| Full | Order Desc | Images |
|------|------------|--------|
|------|------------|--------|

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| Terms | Documents |
|--|-----------|
| (4 bromo 3 hydroxy butan\$) with (4 bromo 3 hydroxy butan\$) | 3 |

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